From pilot to scale in the area of digital technology for Active and Healthy Ageing (AHA)

The case of PHArA-ON project and Going from Idea to Market with Arnora Oy



13.05.2022



11:00 AM CET - 12:45 PM CET



ARN'ORA







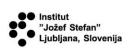




























Agenda



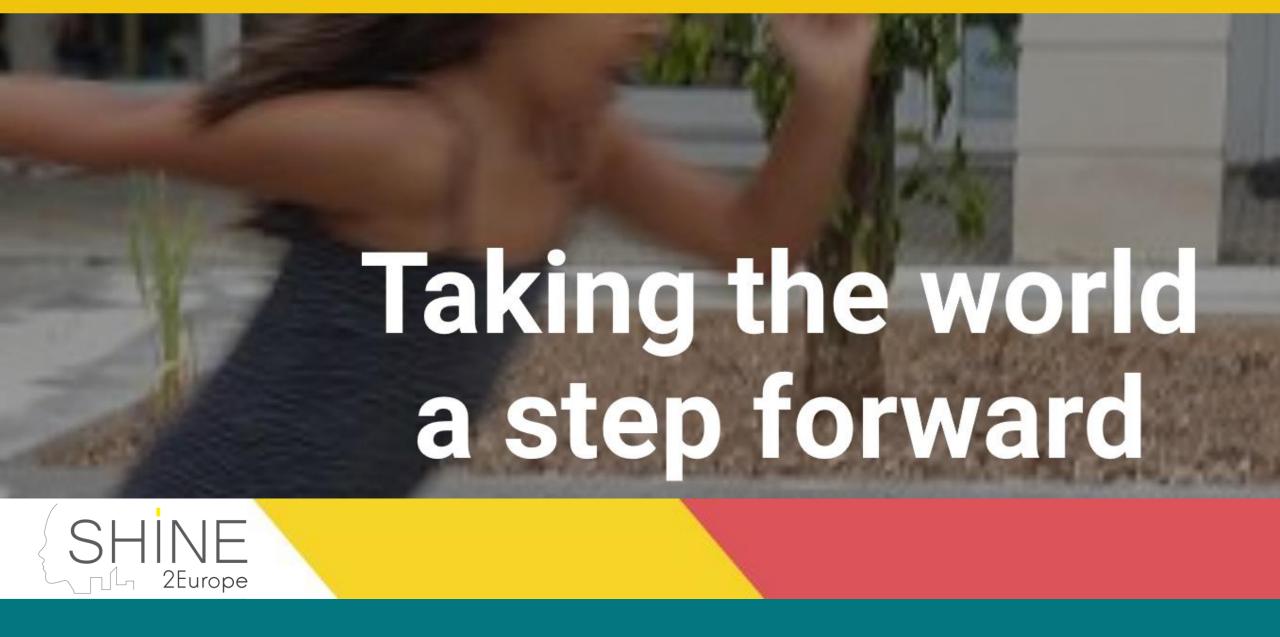
Times are only indicative

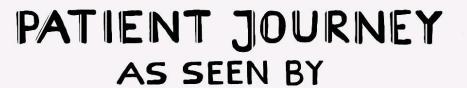
Time	Topic	Presenter
11:00 - 11:05	Welcome and introduction to the webinar	Alexander Nikolov SYNYO GmbH, Austria
11:05 - 11:20	Open Platforms in the area of active and healthy ageing – needs, requirements, and good practices in using open platforms services	Carina Dantas SHINE2 EUROPE, LDA, Portugal
11:20 - 11:30	PlatformUptake.eu - current results and achievements	Natália Paes Leme Machado PlatformUptake.eu project
11:30 - 11:45	PHArA-ON – a case of Open Platform in AHA domain, main challenges, and end-users organizations requirements	Mariana Camacho Santa Casa da Misericordia da Amadora, Portugal
11:45 - 12:00	Facilitating Innovation - Facilitating testing	Jukka Niiranen CEO, Arnora Oy, Finland
12:00 - 12:10	Regulations Vs piloting	Abhishek Jayaprakash CEO, Hoivita, Finland
12:10 - 12:25	Challenges of sub contracting and building multinational distribution channels	Antti Pellinen CFO, Confienta Oy, Finland
12:25 - 12:35	Q & A	
12:35 - 12:45	Final remarks	Alexander Nikolov SYNYO GmbH, Austria



All participants are kindly invited to raise questions in the chat.

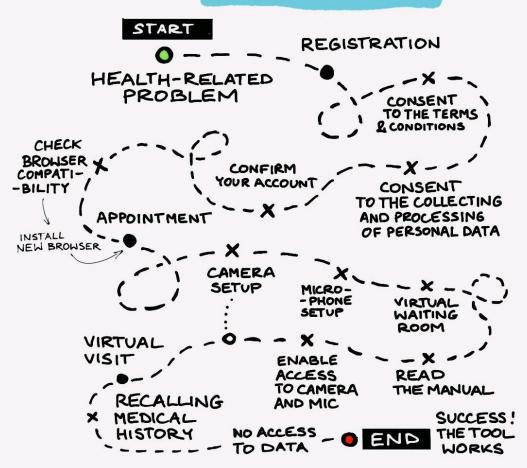








THE PROVIDER



THE PATIENT

START

HEALTH-RELATED PROBLEM

APPOINTMENT

CONNECTION

VIRTUAL VISIT (conversation with a doctor who has access to the data)

SOLUTION

· DIAGNOSIS

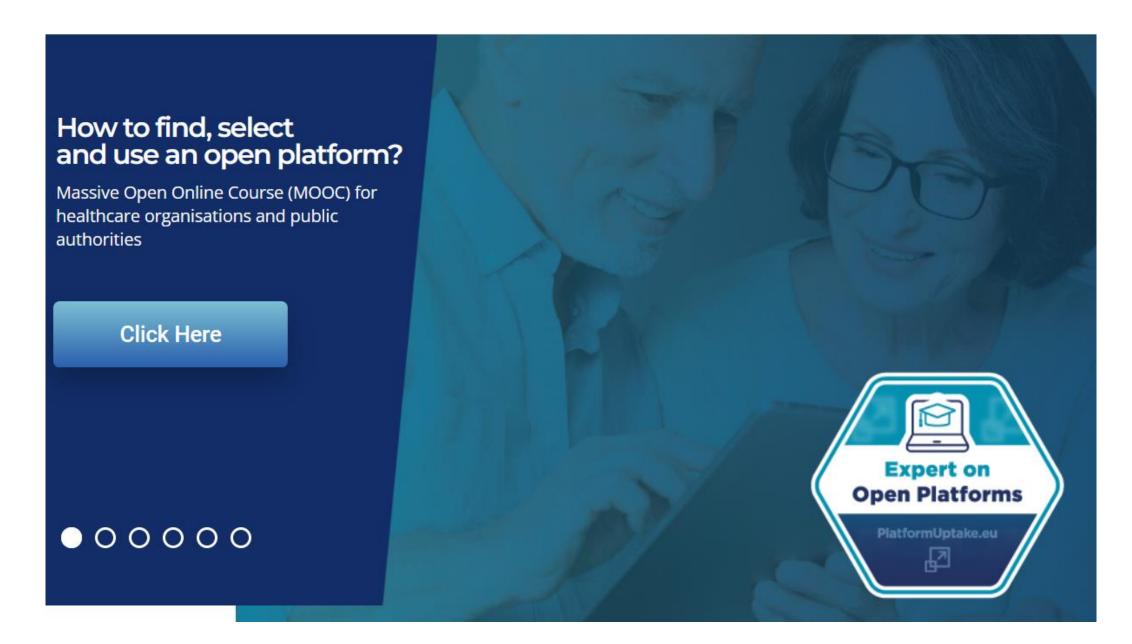
· PRESCRIPTION

END . ONSITE VISIT



WHAT CAN BE THE ROLE OF OPEN PLATFORMS?





ARE DIGITAL TOOLS BEING USED BY OLDER ADULTS?



Internet has become increasingly important – and even more in 2020, following the COVID-19 outbreak and the related confinement and social distancing measures.

In 2020, 88% of people aged 16-74 in the <u>EU</u> reported they had used the internet in the last 3 months; ranging from 70% in Bulgaria to 99% in Denmark.

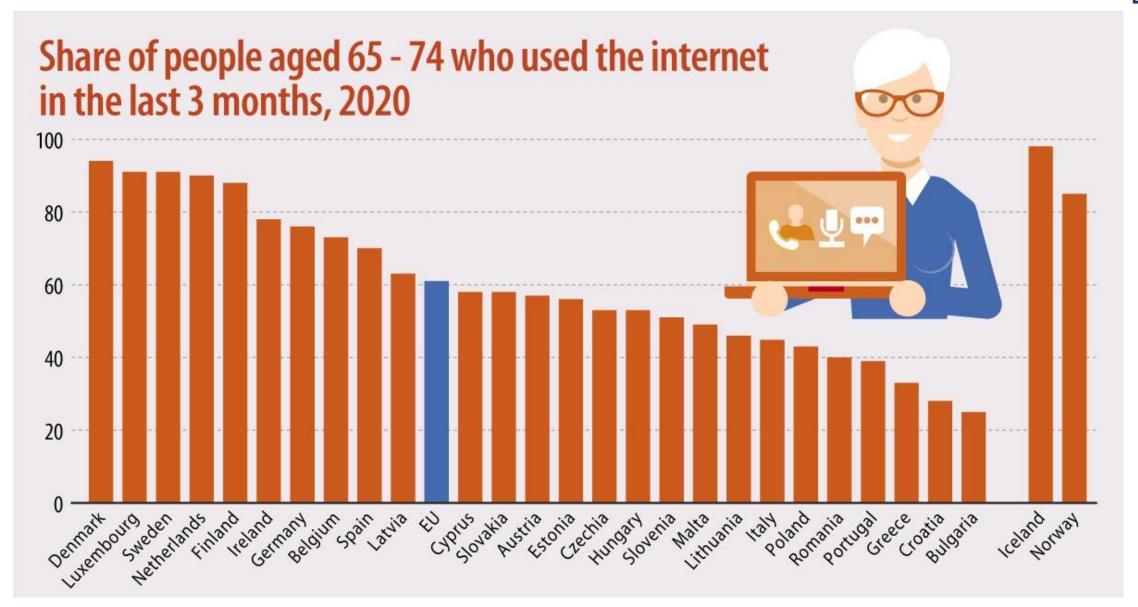
Although very common among the young, internet use is not as habitual among the older generation:

- 98% of those aged 16-24 used the internet in the last 3 months
- vs. 61% of those aged 65-74.

While internet use remains high among the young across the EU, it varies greatly among the older age groups.

ARE DIGITAL TOOLS BEING USED BY OLDER ADULTS?



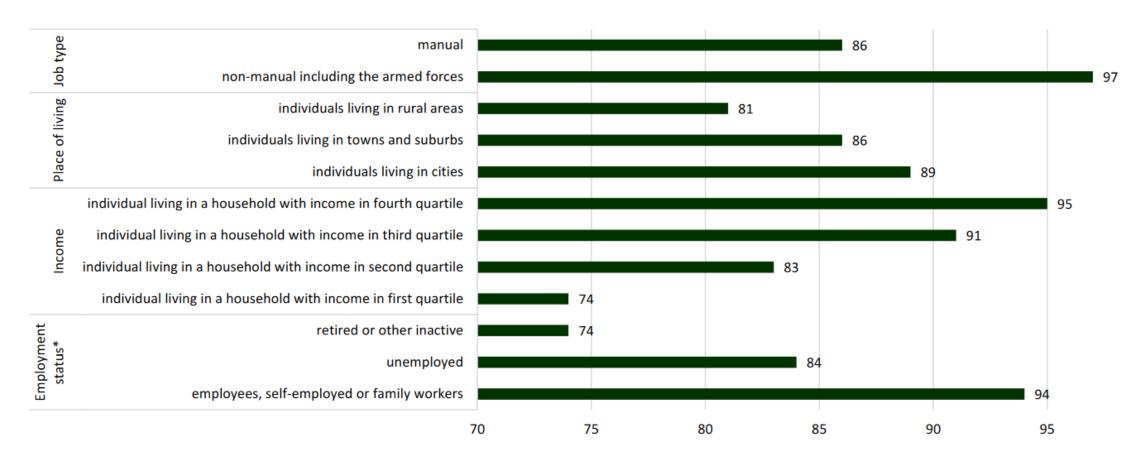


WHAT FACTORS INFLUENCE IT?



Frequency of Internet use according to employment status, job type, income levels and place of living, EU-27, 2020

(% of the respective group, use of the Internet once a week (including every day))



Source: Eurostat, ISOC_CI_IFP_FU (2021) Note: data refers to individuals aged 25-64



CITIZENS need to improve:

- digital skills
- health literacy
- engagement and democratic participation
- less inequalities on access

ENVIRONMENTS have as major challenges:

- house retrofitting
- digital infrastructures
- public spaces & mobility
- climate neutral solutions

and, finally, HEALTH AND CARE need:

- reliable accessible big data
- integrated and personcentered pathways
- long-term funding solutions/ business models

We acknowledge that all these challenges are interconnected and that a global approach is needed!

WHAT ACTIONS TO IMPLEMENT?



- Raise awareness on the need to coordinate health and social care, building infrastructure and environment conditions in order to move ageing and wellbeing towards home care and prevention to a health and wellbeing value-based approach;
- Modernise education of urban planners, architects and ICT developers to focus on on lifelong learning, evidence-based design, smart healthy environments and empowerment;
- Support public authorities and health and social care providers on implementing SHAFE, especially regarding building or restructuring the built environment to include ICT solutions with integrated health and care provision;
- Promote training of formal and informal caregivers (communities) on SHAFE, creating a toolkit and implementing training actions in multiple countries;
- Jointly develop **sustainable business cases** with governments, insurance companies and investors to foster future investments on smart healthy environments.



Citizens

NET4Age-Friendly | International Interdisciplinary Network on Smart Healthy Age-friendly Environments

This COST Action main goal is to foster awareness and support the creation and implementation of smart, healthy indoor and outdoor environments for present and future generations.



Businesses, caregivers, and non-governmental organisations



MANAGEMENT COMMITTEE | 51 Countries FULL NETWORK | ~330 participants

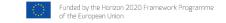


ChairCarina Dantas



Vice-Chair
Willeke van Staalduinen





HEALTH AND WELLBEING THROUGHOUT THE LIFE COURSE



To promote healthy and active ageing throughout the lifespan, an integrated and holistic approach on the physical and mental development of children and adults is crucial.

We recommend the **CREATION AND MAINTENANCE OF LOCAL, REGIONAL OR NATIONAL ECOSYSTEMS** in which all citizens, researchers, business, NGOs, health and social care professionals and authorities are enabled to cooperate with each other in a safe, learning and inclusive environment.

Training opportunities, joint learning of skills regarding healthy lifestyles for all ages, ICT usage, safe housing and independent living, maintained and safe outdoor spaces are all **KEY AREAS FOR ACTION**, along with financial security, online connectivity, accessibility and inclusiveness for all.

PROMOTING LIFE-LONG LEARNING



Social media, games, internet, connects everyone everywhere. Technology is growing at a fast pace and technology is often not looked at through the lens of the older person or person with less capabilities. Another trend are governmental and societal measures to create more efficiency in products and services provisions and to cut spending and to turn completely digital.

Looking at the future, a lifelong approach with **DIFFERENT AND TARGETED LITERACY MEASURES**, fit to different age ranges is needed. Grassroot organisations are the most adequate to provide them.

Traditional media could also be used, e.g. quizzes on television, or influencers (older adults) on national television to promote literacy and learning, because active citizenship is no longer possible without ICT tools.

ENABLING PARTICIPATION IN SOCIETY



We propose to stress the continuous **ADAPTABILITY AND PERSONALIZATION OF ENVIRONMENTS and ICT SERVICES** to the evolving needs of all people as they age.

COMMUNITY PARTICIPATION needs to be enabled as a valuable tool for continuous feedbacks and broader engagement in the use of ICT tools.

Beyond the issue of digital literacy we also need to look at the cost of digital connectivity. For older people on pensions which are below the average wage, the cost of broadband is often one bill too many.

A human-centred design approach is needed in policy making, bearing in mind that there are still many older adults lacking skills in using technology.

Also, are we preparing younger people be tech-savvy for the technologies that will be available for active and healthy living in 20 years?

IT'S ALL ABOUT PEOPLE!





www.mayonews.ie



"Success is not final; failure is not fatal: It is the courage to continue that counts."



https://shine2.eu/









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PlatformUptake.eu

Assessing the State of the Art and supporting an evidence-based Uptake and Evolution of Open Service Platforms in the Active and Healthy Ageing Domain

Natália Paes Leme Machado



















S AFEdemy







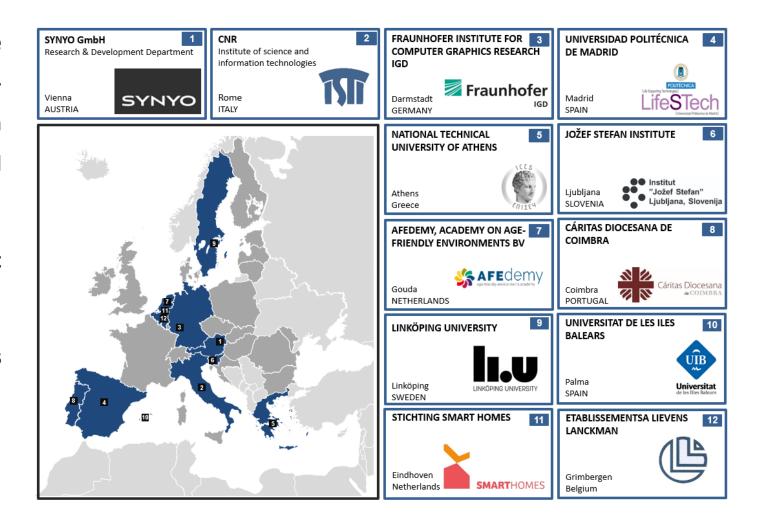




Introduction to PlatformUptake.eu

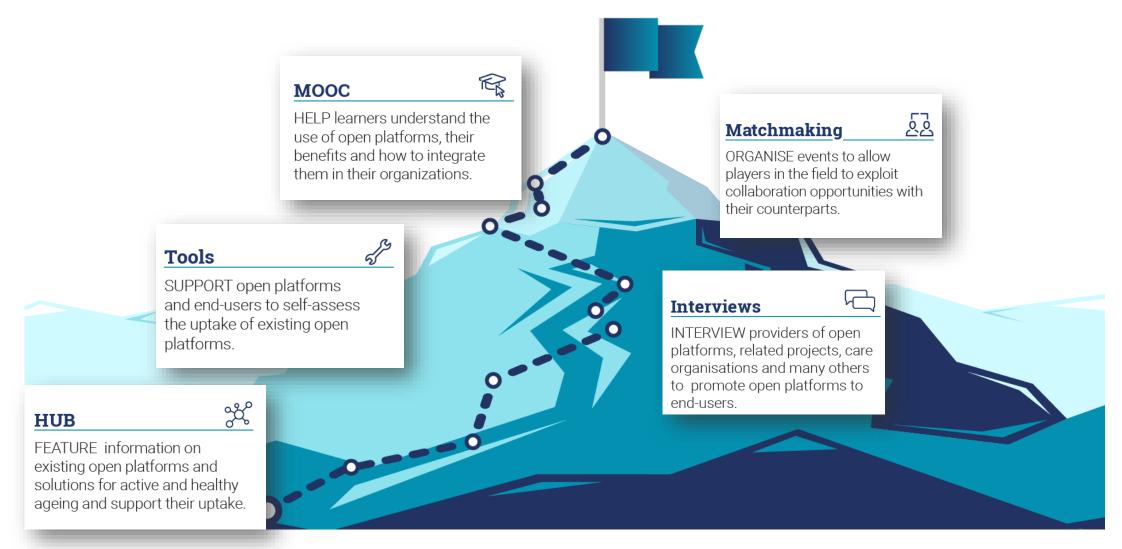


- PlatformUptake.eu: Assessing the State
 of the Art and supporting an evidencebased Uptake and Evolution of Open
 Service Platforms in the Active and
 Healthy Ageing Domain
- Project Type: Coordination and SupportAction
- Project duration: 29 months
 (01/01/2020 31/05/2022)
- Partners: 12 from 10 countries



Current achievements

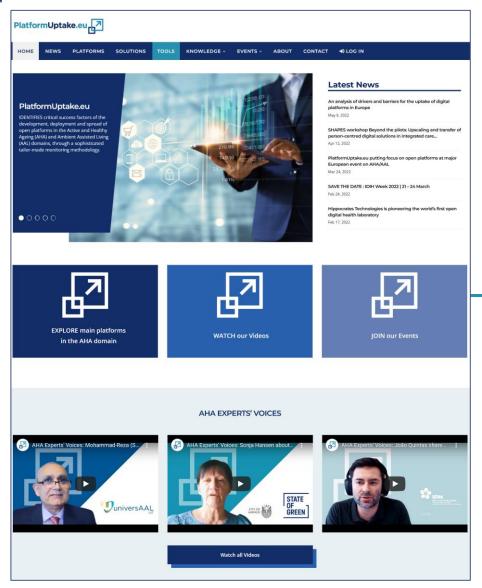




Open Information HUB

PlatformUptake.eu 7

www.platformuptake.eu





Open Information HUB



Matchmaking events - vast network, knowhow and expertise in the field, upscale potential, innovation uptake and investment opportunities



PlatformUptake.eu Consortium

12 consortium organisations and connected networks (Universities, SMEs, End user organisations)





Locations

10 countries in Europe



45+ Projects and initiatives

AHA, ALA, Health care, IoT etc.



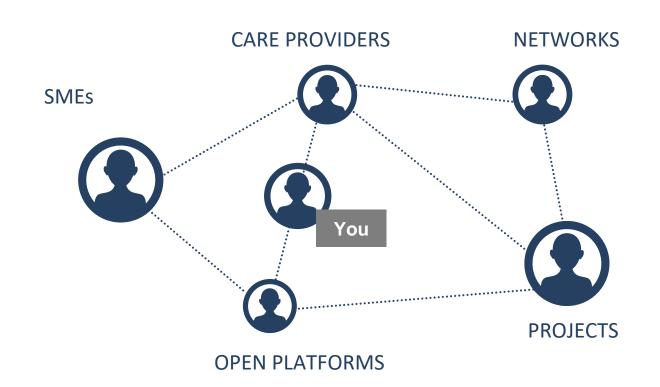
Networks

IEEE, CEN, IN4AHA, IDIH, 50plus Hellas, SHAFE, Nerosubianco, EEN, NET4Age, ECHAlliance etc.



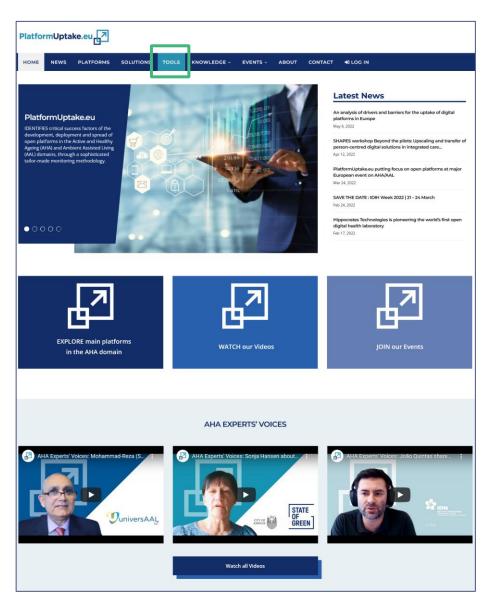
15+

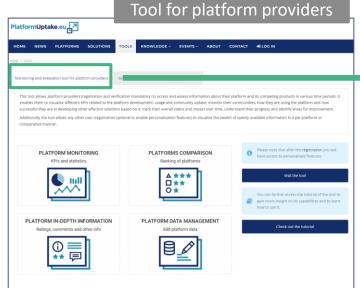
Project events (Matchmaking, MOOCs, Open Information Hub Tools, Capability gaps and Innovation needs and more)



Monitoring and self-evaluation Tools

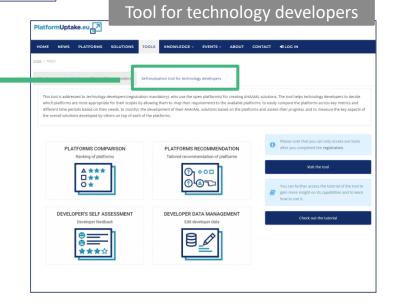






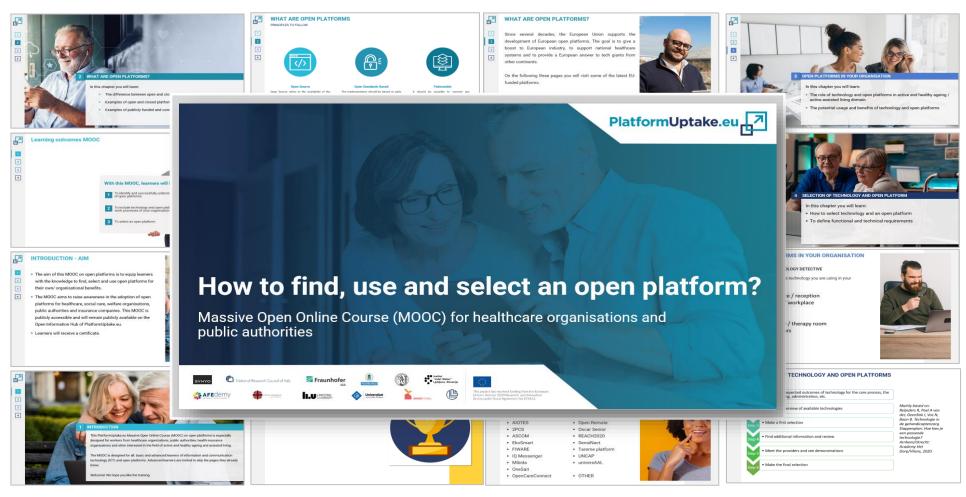
Supports open platform providers and their users (technology developers and care organisations) in the AHA and AAL domains to self-assess the success and uptake of the platforms and their progress while developing solutions on top of them.

Users, such as SMEs or start-ups developing technology for active and healthy ageing are able to browse through the profiles of registered open platforms, compare them and get tailored platform recommendations based on their particular requirements and needs.



PlatformUptake.eu MOOC



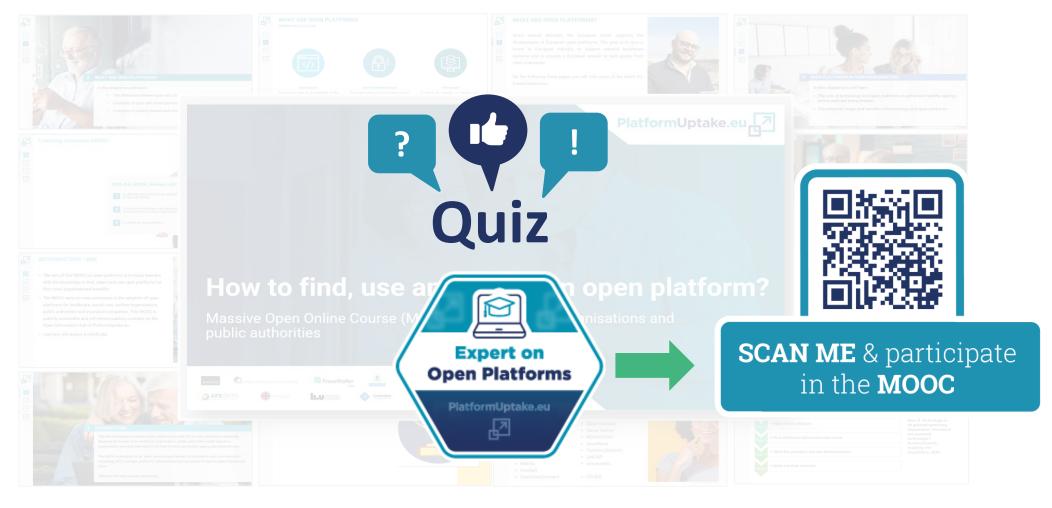


SCAN ME & participate in the MOOC

- ! Helps learners identify, select and integrate open platforms in processes and organisations
- ! For care professionals, public authorities, health insurance organisations

PlatformUptake.eu MOOC

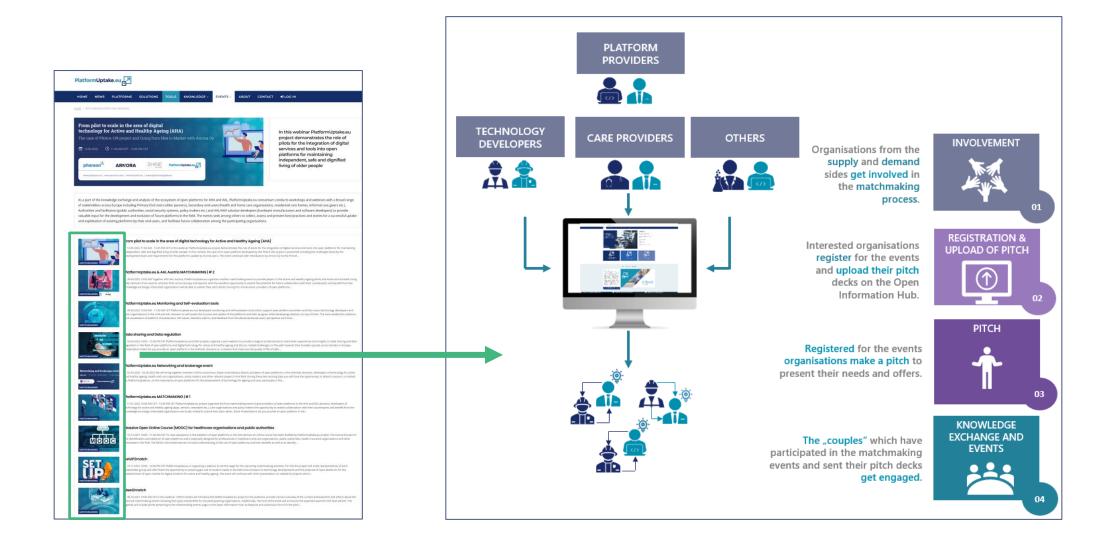




- ! Helps learners identify, select open platforms and integrate them in processes and organisations
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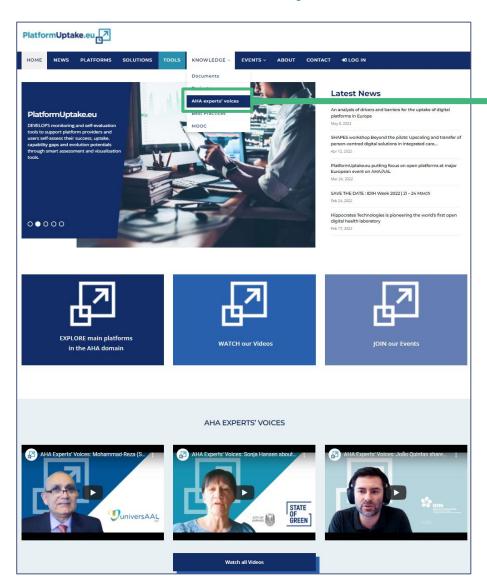
Matchmaking events

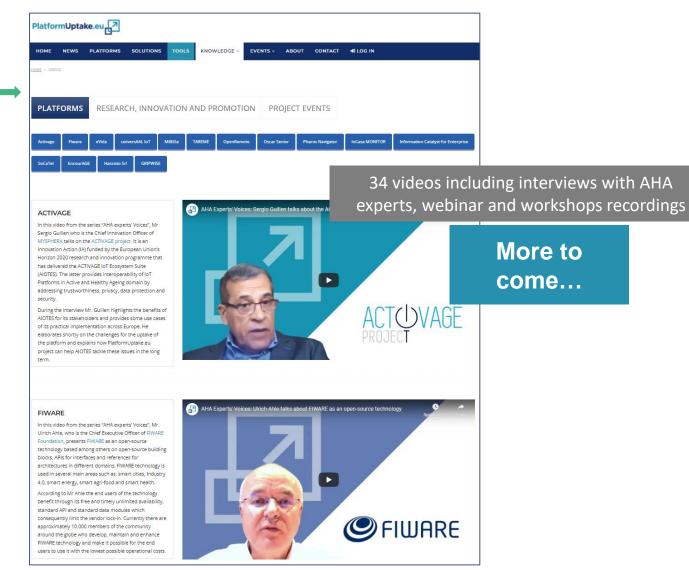




Interviews with AHA experts







Gaps and challenges for uptake of open platforms in AHA/AAL domains



UPTAKE OF OPEN PLATFORMS

Regulations and policies



- Unified policies and standards
- Data silos
- Laws and regulations applicable for new digital services

Communication strategy



- Increased visibility
- Promotion of benefits, including economic aspects
- Strong engagement by stakeholders and contribution to platform's success
- Financial support beyond funding period

Business model



- Two sided market
- Transition to the market
- Key metrics to sustain the platform uptake
- Establishment of entity to further develop, advertise and acquire first end users

GAPS AND CHALLENGES





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This project has received funding from the European Union's Horizon 2020 Research and Innovation Action under Grant Agreement No 875452.



PHArA-ON – a case of Open Platform in AHA domain, main challenges, and end-users Organisations requirements

Introduction to the Pharaon Project

SANTA CASA DA MISERICÓRDIA DA AMADORA

MARIANA CAMACHO
Social Innovation Consultant

From pilot to scale in the area of digital technology for Active and Healthy Ageing (AHA) 13/05/2022







Phara-ON project aims to achieve a smart and active living for Europe's ageing population

- Maintain the dignity of older adults and enhance their independence, safety and capabilities
- Personalised and optimised health care delivery
- Open platforms that can be readily deployed
- Digital services, devices and tools integrated in open platforms
- Application of IoT, artificial intelligence, robotics, cloud computing, smart wearables, big data and intelligent analytics in tools and services

Pharaon 34

PHArA-ON – Overall Objective



Built upon mature existing state-of-the-art open platforms and technologies/to ols

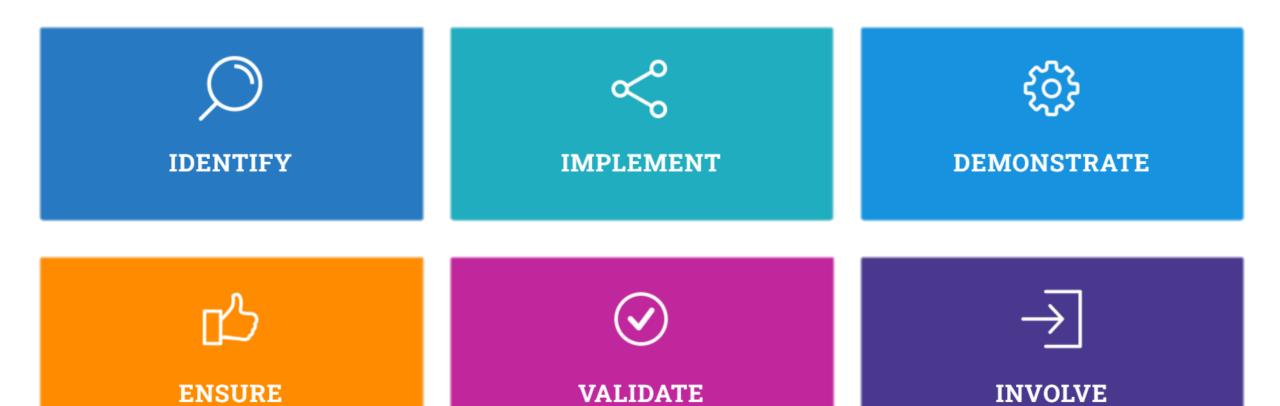
Interoperable cross-domain Pharaon ecosystem and standardized platforms;

Data privacy, cybersecurity, interoperability and openness by design "Open calls":
single
solutions,
small-scale
pilots

User-centric and MAFEIP-like approach for acceptability and impact assessment

PHArA-ON – Goals





PHArA-ON 36

PHArA-ON – Goals





IDENTIFY the current state of interoperability between widely used platforms and partner solutions and solutions from third parties involved.



IMPLEMENT

IMPLEMENT personalised analytics that provide older adults and their caregivers with the most pertinent physical and mental health as well as wellbeing information.



DEMONSTRATE

DEMONSTRATE the feasibility of integrating the Pharaon platforms with existing systems related to intelligent transport and mobility, energy optimisation, and smart cities.



ENSURE

ENSURE user-friendly human-computer interaction modes that address various capacity limitations and provide rapid access to useable information.



VALIDATE

VALIDATE the Pharaon platforms at an early stage providing feedback to the function and usefulness of these platforms and their integrated technologies.



INVOLVE

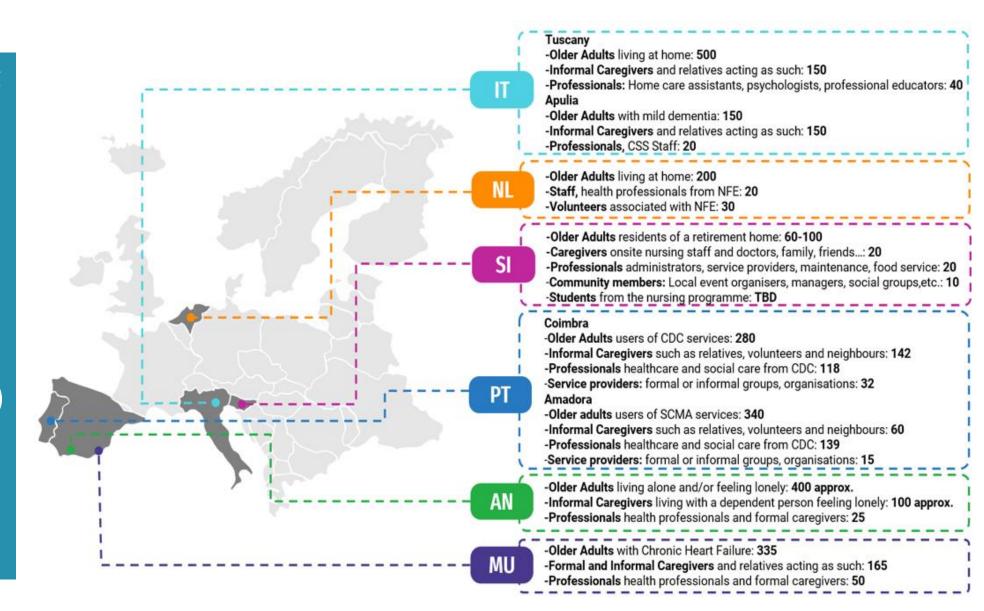
INVOLVE new stakeholders and their technologies, products, or services in the different ecosystems through the launch of open calls.

PHArA-ON 37



older adults,
professionals,
volunteers, informal
caregivers
over 6 pilot sites
in 5 EU countries:

- Murcia (Spain)
- Andalusia (Spain)
- Portugal
- The Netherlands
- Slovenia
- Italy



PHArA-ON - Challenges & Use Cases per pilot



PHARAON CHALLENGES (PCHs)

PCH1 - The behavior and the approach of elderly to friendly technological devices

PCH2 - Heath status definition and its progress over time

PCH3 - Non-Intrusive Monitoring and Alarm Triggering

PCH4 - Promote social cohesion

PCH5 - Define specific personalized care plan on the basis of user's needs

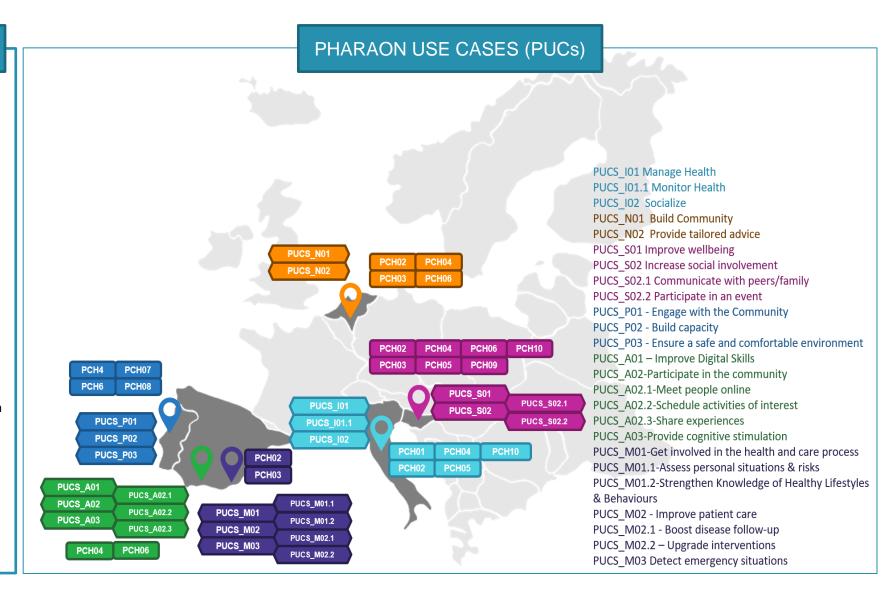
PCH6 - Reduce isolation and loneliness, enhancing the autonomy through connectivity and digital tools

PCH7 - Promote accessibility and the provision of proximity services through the use of IT platforms

PCH8 - Promote capacity building and awareness on green economy, citizenship and cultural traditions

PCH9 - Indoor Environmental Quality

PCH10 - Support to caregivers towards more efficient and personalized care services



PHArA-ON – Methodology



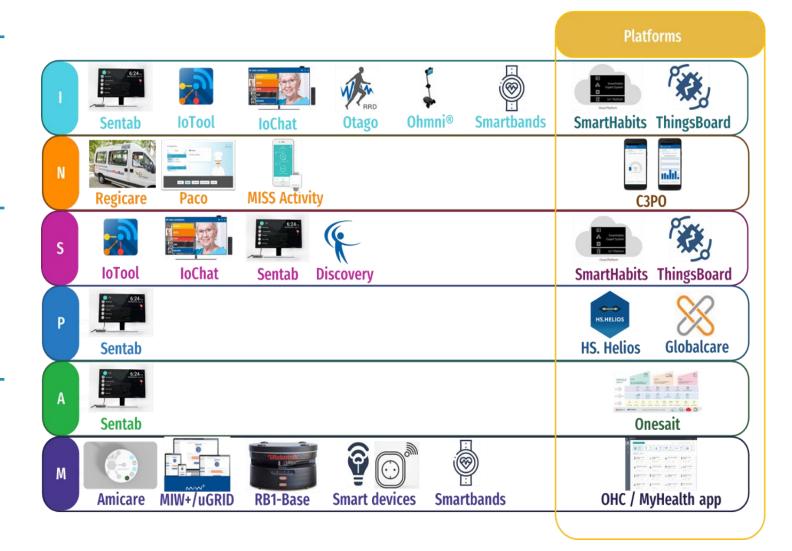
Co-Creation Agile Methodology:

All the stakeholders are involved in designing products and services

Two-stages validation:

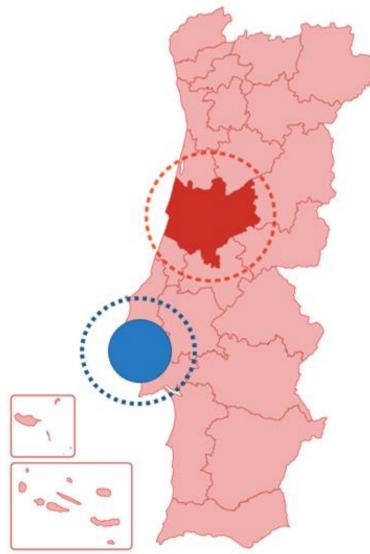
Pre-validation and large-scale pilots

Two open calls to involve new stakeholders and their tech and services (M23, M33)



PlatformUptake.eu 2

PHArA-ON - Portuguese Pilot



The pilot in Portugal is divided between two locations, <u>Amadora and Coimbra</u>. The objectives of the Portuguese pilot sites are <u>to develop and implement citizen-focused solutions</u>, integrated care and planning, integrated infrastructures and processes, and knowledge sharing.

These pilots include a central focus on the relationship between the <u>community</u>, the <u>environment</u>, and the <u>people living</u> in them.











PHArA-ON - Portuguese Pilot







de Coimbra

IDENTIFIED CHALLENGES

IDENTIFIED CHALLENGES RELATED TO THE PROCESS OF AGEING IN URBAN ENVIRONMENTS **PCH 4** Lack of social cohesion within the community and among its different actors **Increased isolation and loneliness**, compromising older adults' autonomy, PCH 6 connectivity and social participation Lack of older peoples' access to proximity services, through the use of IT **PCH 7** platforms Reduced capacity and awareness on environmental issues, citizenship and PCH 8 cultural traditions

PHArA-ON - Portuguese Pilot



PILOT CHALLENGES AND HYPOTHESES

	Challenge addressed	Implementation	Hypotheses
PHC4	Promote Social Cohesion	Participating in Community Life Livelong learning Ensuring a safe and confortable environment	To enhance the use of city environments by the older adults, the Portuguese pilot aims at putting Health and Care on the heart of the cities, thus addressing some of the main determinants of health improvement. In this sense, by connecting "SMART CITIES and these AGEING CHALLENGES", it intends to favor the creation of a support ecosystem of Health and Care actors around the frailest ones, across public, private, voluntary and community sector organizations.
PCH6	Reduce isolation and loneliness, enhancing the autonomy through connectivity and digital tools		
PCH7	Promote accessibility and the provision of proximity services through the use of IT platforms (Integrated care and planning)		
PCH8	Promotote capacity building and awareness on green econonomy, citizenship and cultural traditions		

PHArA-ON - Goals of the Pilot's scenario

- Integrated approach in health and social care at home
- Person-centred care through ambient assisted living;
- Active and healthy ageing, improving healthy life expectancy and prolonging independent living;
- Preserve or improve person functional capacity;
- Tackle loneliness and isolation by improving mobility, accessibility, connectivity and social participation;
- © Compassionate cities;
- © Equity, wellbeing, social cohesion, multi sector collaboration and action;
- © Caregivers empowerment through tools and knowledge;
- © Foster preventive medicine through identification of lifestyles and health screenings;
- Improve efficient health and care resources in the cities;
- © Community ecosystems that are smart, sustainable, healthy and responsive to ageing citizens needs;
- Sustainable solutions of social networks with environmental concerns.

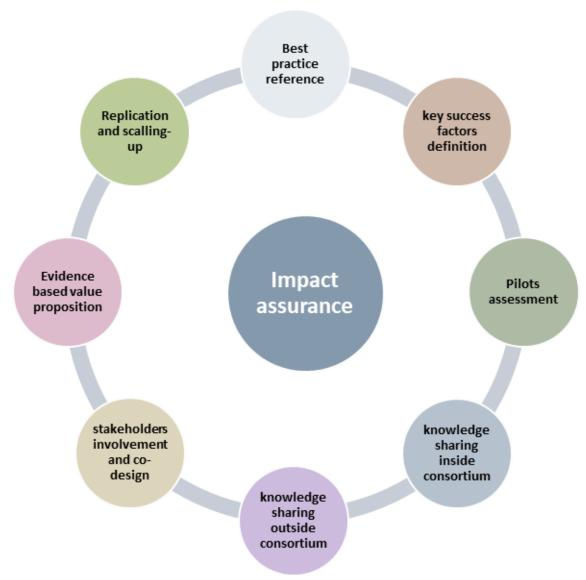
PHArA-ON - Impact assurance

To involve relevant actors in the co-design of objective and strategy for the service introduction into the daily practice and market uptake after the project's end

To share best practice both inside and outside the consortium in order to address all the key points that are necessary in the pathway towards the market

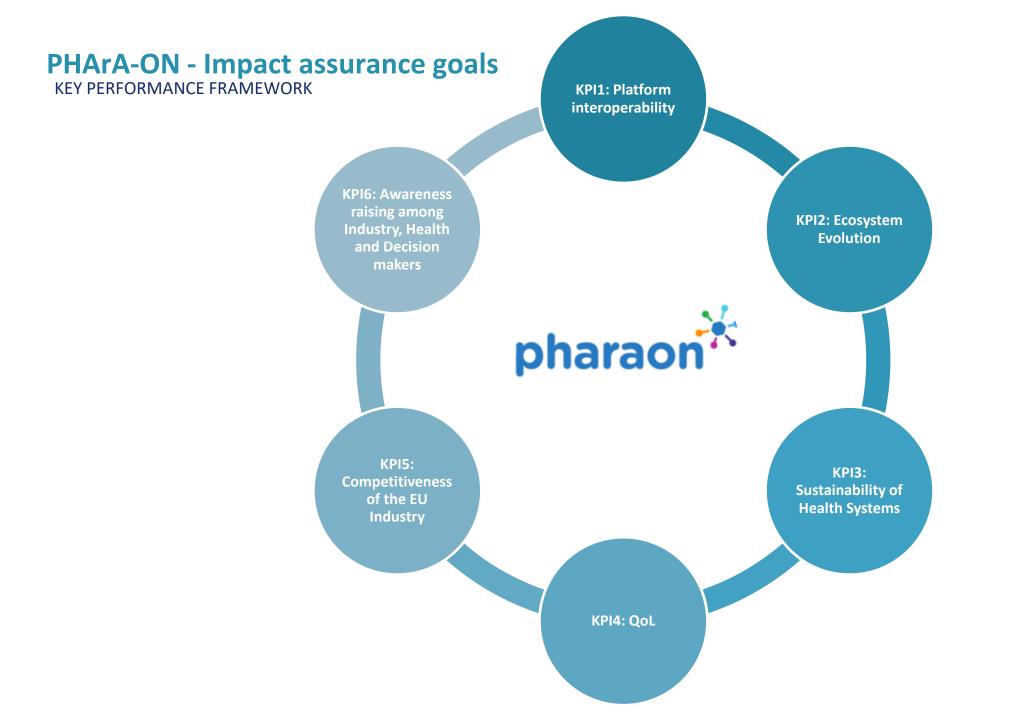
Communicate evidence based value proposition to decision makers

Definition of replicability and scalability roadmap according to local ecosystem



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PHArA-ON



PHArA-ON - Evidence Creation and Evaluation



PORTUGUESE PILOT'S KPIS

Local KPIs

Evaluated through: questionnaires, focus group and interviews;

Baseline, intermediate, final (timing)

Quality of Life

Perceived quality of life

Perceived loneliness

Users Acceptance

Satisfaction

Easyness to use

Utility

Perceived safeness

Drop out rate

Cost-effectiveness

Potential costeffectiveness due to
enhanced self-care,
lifestyle, age-friendly,
environments and
socioeconomic
benefits

Innovation

Number of jobs created

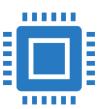
Timing for training end-user

Timing for training carers

Technology adoption

PHArA-ON - Innovation and expected impact





Platforms & Pilots (PP)

- Increased prospects for future digital industrial platforms by validation of technological choices, sustainability and reproducibility, of architecture models, standards, and interoperability, as well as of verification of non-functional characteristics such as security and privacy.
- Strengthened links with other, bottom-up programmed and initiatives, supported by regional, national and European policies and funds.
- Increased number of services and applications operated by European companies, especially small businesses and entrepreneurs.
- Significant and measurable contribution to standard or prenormative activities.
- Increased number of platforms, applications, business processes and innovative business models validated via large-scale-piloting.
- Emergence of **sustainable Ecosystems** around digital platforms.

Smart and Healthy Living at home (SHLH)



- Emergence of EU-Led platform for smart and healthy and independent living at home.
- Increased competitiveness of the European ICT industry in the domain through enhanced interoperability, best practices, for viable business and financing models and scalable markets.
- Demonstrate links and build synergies with Member States and regional initiatives in this area
- Improved and Evidence-Based efficiency of health and care systems with demonstrated added value of underlying technologies.
- Improved quality of life and health status for involved users and carers, with demonstrated added value of underlying technologies.
- User accepted, validated innovative solutions addressing accessibility, privacy, security, vulnerability, liability and trustconnected data spaces.

Pharaon 49





Questions & Answers

Facilitating Innovation - Facilitating Testing

Jukka Niiranen: +358(0)40 502 8201,

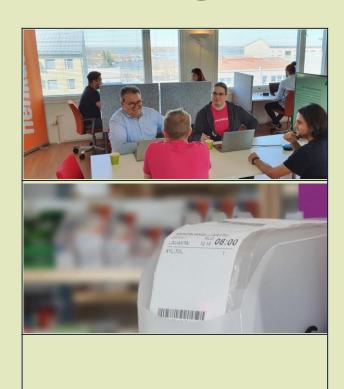
jukka.niiranen@arnora.com

Facilitating Innovation

You bring in the innovation, we facilitate your operations from productisation to segmentation and from contacts to go-to-market. Arnora and our network can find and offer preseed financing and an array of widely approved services that guide our customer companies forwards on their path to growth and international success.

Nurturing HealthTech

Bringing together companies and suitable health sector testbeds and living labs. Arnora is the catalyst and interpreter who speaks both Business and Doctor-languages. We thrive on tackling with the pricing issues and finding required financing.



Business Development

Business and project plans as well as the development of business models, processies, sales and marketing form the very essence of our doing. Arnora has specialized in challenging business cases and public development projects especially in the field of high tech and ICT.

Innovation Village

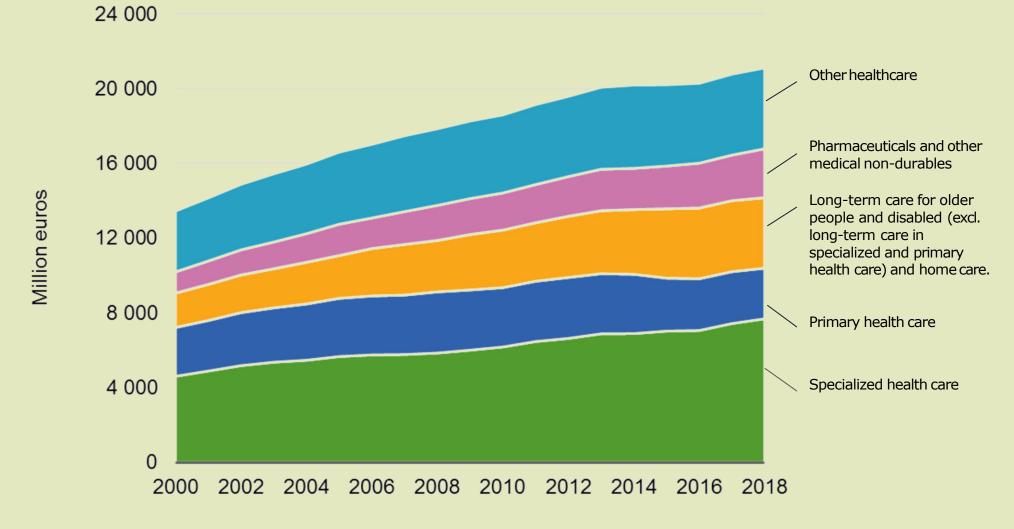
Working space for innovative Health Tech, Med Tech and ICT startups. Amora's deep involvement and our inspirational and international work community offers exceptional brain-picking opportunities as well as possibilities for social and recreational endeavours.



Health expenditure in 2000-2018



Source: THL, Health Expenditure and Financing in 2018. (2018 prices)

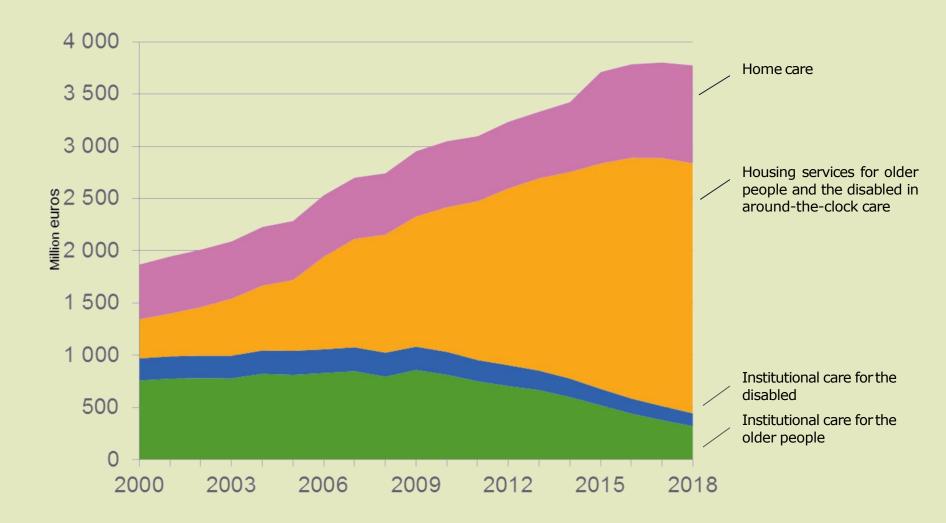




Long-term care for older people and disabled and home care in 2000-

2018 th

Source: THL, Health Expenditure and Financing in 2018. (2018 prices)



There are interesting actors in the markets

Healthtech Finland is an industry association and part of Technology Industries of Finland.

Upgraded is a nonprofit association for health & wellbeing startups and Arnora facilitates innovations and brings together companies and suitable health sector testbeds.

TestBeds in Finland are e.g. OuluHealth Labs, Lab-ELSA, HealthHUB Tampere, Kuopio Living Lab, HUS TestBed Business Finland, European Healthtech Investment Forum, CleverHealth Network, Slush... Other public **ecosystems** that support and connect testing, such as **Terkko**, **Forum Virium** and **Helsinki Business Hub**

..however public organisations are challenging purchasers. They lack motive to buy from SMEs.

Facilitating Innovation → Testing → Sales

HighTech entrepreneurs originating from outside EU needed to build business plan and application for eligibility statement for migration. > Sparring, writing and guidance.

HealthTech **growth company** was seeking for EU Horizon funding. > Project planning, definitions and matchmaking.

Start-up company needed to start real-life testing in public Home Care. >Definition of what needs to be tested and negotiations.

Start-up company wanted to start testing in Nursing Home environment. >Solution definition and matchmaking.

HoReCa area customer was looking a way to build a new **ICT solution** to support their operations and diversify their business. >Planning, project and productization.

Public organization customer was looking for partners in numerous Baltic Sea Region countries for a project application.
> Partner collection, visits, project definition and writing.

Strategy definition and communication

Customers, segments and focus

Company and project level financial planning and projections

Market studies and market-fit

Making solutions sellable and purchasable

Nordic Innovation







Coming soon: One-Stop-Funnel

- Funnel Arnora together with Aarhus Municipality from Denmark and Västerbotten Region from Sweden are soon launching a new One-Stop-Funnel project.
 - Project focuses on the development of "the funnel" that collects and refines HealthTech companies for actual product and solution testing at the TestBeds and LivingLabs especially in the Nordics.
 - Three year project is financed by NordicInnovation.
 - We are also always interested in participating to Horizon,
 Eureka / Eurostar projects. Either as a service vendor or partner.

HOIVITA

Remote Health Monitoring



HOIMA

henkaus + vesratio

SOLUTION

ATIVIOH

Hoivita is all about presenting the right information at the right time

Completely contactless solution measuring patient's movement, breathing and environment.

Minimalistic UI provides quick grasp of patient's health enabling public and private healthcare operators to take better care of their patients

- "Reduced emergency department visits, hospitalizations, and 30-day readmissions for homebound patients, saving an average of **\$2,700** per beneficiary per year and increasing patient and caregiver satisfaction"
- Harvard Business Review





REGULATIONS



Common Knowledge

- CE Class I Class IIA Class III
- MDD →MDR
- Technical Documents, EMCTests,
 (Clinical Trials)
- Notified Bodies (NB)
- Timeframes
- Cost

How, Why

 One of Finland's largest private healthcare provider

Lessons

- Do you really really need a medical device certification?
- Intended use
- Know your NB's get them involved really early
- Change implementation, colours
- Pre-EMC Tests
- VC Financing

PILOTS



1st Pilot

 One of Finland's other largest private healthcare provider

Domestic

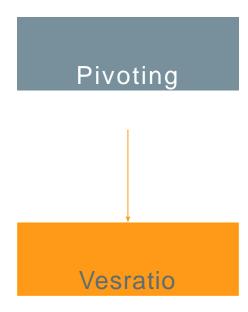
- Silamuskoti

International

- Skåne Municipality
- D' Olot Hospital

Arnora

- Local EMC test labs
- Connections with testbed facilities



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The go-to company in remote health monitoring



Challenges in Subcontracting and Building Multinational Distribution Channels

Antti Pellinen

Confienta Oy



Confienta Oy

- Over ten years of experience in elderly safety bracelet and wrist phone services.
- Serves both private and public health care providers, as well as consumer customers.
- Distribution increasingly via channels.
- Experience with subcontracting from various regions.





Challenges in Multinational Subcontracting

Development work

- Specifications
- Common language, common understanding
- Time zones
- Project management
- Acceptance
- Different environments?
- Testing, testing and testing!
- Payment terms

Production

- Specifications
- Common language, common understanding
- Delivery times component shortage!
- Logistics
- Quality assurance
- Payment terms
- Warranty or swap stock?



Challenges in Building Multinational Distribution Channels

Services

- Target segments coverage
- Exclusivity vs. minimum sales targets
- Reseller or agent
- Pricing principles
- National regulations who complies
- Support!

Tangible products

- Target segments coverage
- Exclusivity vs. minimum sales target
- Reseller or agent
- Pricing principles
- Ordering process and stock
- Payment terms advance paymen
- Logistics incoterms
- National regulations who compli
- Installation responsibilities
- Spare parts inventory responsibl
- Warranty and support!

ARNORA HOIVITA





Thank You!

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Questions & Answers







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Assessing the State of the Art and Supporting the Large Scale Uptake of Open Service Platforms in the #ActiveAgeing #HealthyAgeing #AHA #AAL Domain

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